

Flow-Max[®] Industrial Filters

Heavy-duty filter housings made to ASME code specifications.

Typical filtration applications

- Pre-filtration for RO systems
- Drinking water filtration
- Surface water filtration
- Boilers & cooling towers
- Process water
- Ground water
- Municipal water
- Oils and hydraulic fluids

Materials and options

- 304, 316 and carbon steel
- Coatings for sea water filtration
- Duplex systems
- 300 psi pressure rating
- Electro-polishing
- Optional ASME U-Stamp available



Flow-Max[®] industrial filter housings using 20" cartridges

Model Number	Round	Standard Cartridge	Max. Flow With Pleated Cartridges (GPM)	Max. Flow With Depth Cartridges (GPM)	Material	Pipe Size	Drain Size	Ship. Weight (lbs.)
FMIF3X2	3	20"	60	30	Specify	2" NPT	3/4"	45
FMIF6X2	6	20"	120	60	Specify	2" flange	3/4"	55

Flow-Max[®] industrial filter housings using 30" cartridges

Model Number	Round	Standard Cartridge	Max. Flow With Pleated Cartridges (GPM)	Max. Flow With Depth Cartridges (GPM)	Material	Pipe Size	Drain Size	Ship. Weight (lbs.)
FMIF3X3	3	30"	90	45	Specify	2" NPT	3/4"	50
FMIF6X3	6	30"	180	90	Specify	2" flange	3/4"	65
FMIF12X3	12	30"	350	175	Specify	3" flange	3/4"	225
FMIF20X3	20	30"	600	300	Specify	4" flange	3/4"	200
FMIF26X3	26	30"	800	400	Specify	6" flange	1-1/2"	495
FMIF32X3	32	30"	1,000	500	Specify	6" flange	1-1/2"	950

Flow-Max[®] industrial filter housings using 40" cartridges

Model Number	Round	Standard Cartridge	Max. Flow With Pleated Cartridges (GPM)	Max. Flow With Depth Cartridges (GPM)	Material	Pipe Size	Drain Size	Ship. Weight (lbs.)
FMIF3X4	3	40"	120	60	Specify	2" NPT	3/4"	55
FMIF6X4	6	40"	175	120	Specify	2" flange	3/4"	75
FMIF12X4	12	40"	300	250	Specify	3" flange	3/4"	225
FMIF20X4	20	40"	550	425	Specify	4" flange	1-1/2"	275
FMIF26X4	26	40"	750	575	Specify	6" flange	1-1/2"	340
FMIF32X4	32	40"	1,000	720	Specify	6" flange	1-1/2"	410
FMIF52X4	52	40"	1,500	1,050	Specify	8" flange	1-1/2"	480
FMIF80X4	80	40"	2,000	1,600	Specify	8" flange	1-1/2"	800
FMIF116X4	116	40"	2,500	2,000	Specify	10" flange	1-1/2"	1,000
FMIF144X4	144	40"	3,000	2,500	Specify	12" flange	1-1/2"	1,500

Note: Industrial filter housings listed above include swing-bolt and eye nut lid closure (davit for lid lift on 12 rounds and above), seals for DOE cartridges and elements with 222 o-ring end caps, without the need for special adapters, and they accept cartridges from 2-1/2" to 2-3/4" OD. Housings are rated for pressures to 150 psi (10 bar) and temperatures to 250°F (121°C). Standard gaskets are Buna-N. For carbon steel housings add "CS" at end of product code; add "304" for 304 stainless steel; add "316" for 316 stainless steel and add "ASME" for "u" stamp. Flow rates are based on water filtration, and they are for guidelines only. Actual flow rates should be based on micron rating, solids content and a number of other factors. Shipping weights are approximate.

Flow-Max[®] In-Line Filters

Single cartridge, metal filter housings for in-line installations.

Applications

- High temperatures
- High pressures
- Aggressive chemicals
- Water
- Oils
- Coolants
- Plating solutions
- Solvents
- Lubricants
- Hydraulic fluids

Models

- Nickel plated brass heads with 304 stainless sumps and T-Handles for easy sump removal
- 304 stainless steel for DOE cartridges
- 316 stainless steel for 222 o-ring end caps
- Carbon steel

Specifications

- Rated for pressures to 250 PSI (17.5 bar)
- Rated for temperatures to 250°F (121°C)
- Buna-N seals are standard. Optional seals available



Models with nickel plated brass heads, 304 stainless steel sumps and T-Handles

Model Number	Cartridge Length	Pipe Size	No. Of Cartridges	Sump	Head	Shipping Weight (lbs.)
FM10-BN-304-34T	10" *	3/4"	1	304 SS	Nickel / Brass	7
FM20-BN-304-34T	20"	3/4"	1	304 SS	Nickel / Brass	10
FM30-BN-304-34T	30"	3/4"	1	304 SS	Nickel / Brass	12

* Accepts 10" and 9-7/8" wound or 9-3/4" cartridges with rigid end caps (pleated). Rated for pressures to 250 psi and temperatures to 250°F

Models with 304 stainless steel heads and 304 sumps

Model Number	Cartridge Length	Pipe Size	No. Of Cartridges	Sump	Head	Shipping Weight (lbs.)
FM10-304-34	10" *	3/4"	1	304 SS	304 SS	7
FM20-304-34	20"	3/4"	1	304 SS	304 SS	10
FM30-304-34	30"	3/4"	1	304 SS	304 SS	12

* Accepts 10" and 9-7/8" wound or 9-3/4" cartridges with rigid end caps (pleated). Rated for pressures to 250 psi and temperatures to 250°F

Models with 316 stainless steel construction for cartridges with 222 o-ring end caps

Model Number	Cartridge Length	Pipe Size	No. Of Cartridges	Sump	Head	Shipping Weight (lbs.)
FM10-316-34-222	10"*	3/4"	1	316 SS	316 SS	7
FM20-316-1-222	20"	1"	1	316 SS	316 SS	10

Filter housings listed directly above are rated for pressures to 250 psi and temperatures to 250°F.

Models with carbon steel sumps and cast iron heads

Model Number	Cartridge Length	Pipe Size	No. Of Cartridges	Sump	Head	Shipping Weight (lbs.)
FM10-CS-34	10"*	3/4"	1	Carbon	Cast iron	7
FM20-CS-34	20"	3/4"	1	Carbon	Cast iron	10
FM30-CS-34	30"	3/4"	1	Carbon	Cast iron	12
FM40-CS-1	40"	1"	1	Carbon	Cast iron	12

* Accepts 10" and 9-7/8" wound or 9-3/4" cartridges with rigid end caps (pleated). Rated for pressures to 250 psi and temperatures to 250°F

BIG-BUBBA®

FILTERS



Big-Bubba non-metallic filter housings

Big-Bubba® filters are bigger and better than other non-metallic filter housings because pricing is based on their economical plastic construction, while the pressure rating is nearly equal to stainless steel!

Features

- Made of glass-reinforced polypropylene for greater strength and chemical resistance.
- Will not dent, rust, chip or corrode.
- Filters accept single cartridge for convenience.
- Swing-bolt lid closure is easy, safe & secure.
- Pressure release for safety.
- Cartridge "lock" adapter to hold cartridge in place.
- Double o-rings on cartridges for superior sealing.
- Two outlets to allow piping from the same direction.

Applications

- Industrial applications for chemical compatibility.
- Pre-filtration for reverse osmosis.
- Community water systems for cyst reduction.
- Sea water filtration (for non corrosion).
- Whole house filtration for chlorine, taste, odor and sediment reduction.

U.S. and foreign patents pending.

Specifications

	BBH-150
Material, body (all wetted surfaces)	Glass reinforced PP
Material, cartridge end caps	Glass reinforced PP
Material, swing bolts	304SS
O-Ring	EPDM
Lid closure	Swing bolt
Pipe fittings (two inlets and one outlet)	2" slip
Overall height	40"
Width (vessel OD)	12"
Maximum flow rate	150 GPM (36M ³ /hr)
Maximum temperature (housing)	175°F (80°C) @80 psi
Maximum working pressure	125 psi (8.75 bar)
Burst test	300 psi
Cycles test (0 to 150 psi)	100,000

Note: Please refer to pressure drop chart to determine flow rate, based on micron rating, solids content and other factors.

Big-Bubba filter housings

Product Code	Max. Flow Rate*	Pipe Fitting	Shipping Weight (lbs.)	Carton Size	No. / Carton
BBH-150	150 GPM	2" SLIP	47	16" x 16" x 41"	1

* With pleated cartridges.

Big Bubba® Filter Cartridges

Pleated, depth & activated carbon cartridges with o-rings seals for superior performance.

Pleated for more surface area



Pleated cartridges are recommended for typical water filtration applications to remove sediment, hard solids and when high efficiency filtration is required. We offer a wide range of micron ratings, including one micron absolute for surface water filtration to reduce Giardia Cysts and Cryptosporidium.

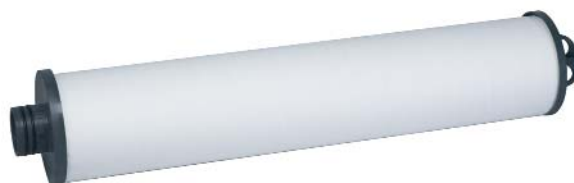
Pleated Big-Bubba® cartridges

Product code	Micron	Media Type	Seal	Number / Carton
BBC-150-P1A	1 Absolute	Polypropylene*	Double o-rings	1
BBC-150-P1	1	Polypropylene	Double o-rings	1
BBC-150-P5	5	Polypropylene	Double o-rings	1
BBC-150-P20	20	Polyester	Double o-rings	1
BBC-150-P50	50	Polyester	Double o-rings	1

* Five ply for greater removal efficiencies.

Depth cartridges

Select depth cartridges to remove sediment, gelatinous substances and when chemical compatibility is an issue. Big-Bubba depth cartridges are 100% polypropylene with EPDM o-rings.



Depth Big-Bubba® cartridges

Product code	Micron	Media Type	Seal	Number / Carton
BBC-150-D1	1	Polypropylene	Double o-rings	1
BBC-150-D5	5	Polypropylene	Double o-rings	1
BBC-150-D20	20	Polypropylene	Double o-rings	1
BBC-150-D50	50	Polypropylene	Double o-rings	1

Activated carbon cartridges



Activated carbon Big-Bubba cartridges are ideal for whole house filtration and other applications to reduce chlorine, tastes, odors and sediment from water. Activated carbon cartridges are rated at five micron, nominal.

Activated carbon Big-Bubba® cartridges

Product code	Micron	Media Type	Seal	Number / Carton
BBC-150-AC	5 Nominal	Activated carbon	Double o-rings	1

Big-Bubba® Filters & Cartridges

Technical information and spare parts.

Low pressure drop

Big-Bubba filter housings are designed to minimize pressure drop, by using 2" pipe fittings and large diameter center tubes for Big-Bubba filter cartridges. (See chart at right for pressure drop data using pleated cartridges.)



Big-Bubba cartridge specifications (Model BBC-150)

	Pleated	Depth	Activated Carbon
Media	PP	PP	Pulverized activated carbon
End caps	PP + FG	PP + FG	PP
Center tubes	PP	PP	PP
Maximum flow rate (GPM)	150	100	10
Maximum temperature	175°F (80°C)	175°F (80°C)	140°F (60°C)
Maximum ΔP (psi)	30	40	30
Chemical resistance	Excellent	Excellent	Not a factor (for water)
Length (media)	26-1/4"	26-1/4"	26-1/4"
O-rings (dual)	EPDM	EPDM	EPDM
Shipping weight (lbs.)	5	5	7
Carton dimensions	7" x 7" x 31"	7" x 7" x 31"	7" x 7" x 31"
Micron ratings	1A, 1, 5, 20, 50	1, 5, 20, 50	5

Note: Flow rates are based on each specific application, micron rating, solids content and a number of other factors. End user should consider these factors when selecting the filter housing (or number of filter housings) needed for their particular requirement.

Big-Bubba filter housing spare parts

Part Number	Description
BB-LID	Lid
BB-PR	Pressure release button, washer and screw.
PG15L25	Pressure gauge
BB-EYEBOLT	Eye bolt
BB-STUD	Stud for eye bolt
BB-POST	Post for eye bolt
BB-WINGNUT	Wing nut
BB-WASHER	Washer for lid closure
BB-LW	Lock washer for lid closure
BB-ORING-E	O-ring for lid closure, EPDM
BB-ORING-V	O-ring for lid closure, Viton
BB-COUPLER	Coupler (two piece)
BB-COUPLER-OR	O-ring for coupler and plug
BB-PLUG	Plug for second outlet
DRAINPLUG	Drain plug with o-ring
BB-CA	Cartridge adapter (goes in bottom of housing)
BB-CASCREWS	Screws for cartridge adapter
BB-SC	Shipping carton with corrugated inserts

Flow-Max[®] Industrial Filters For 40" Big-Bubba[®] Cartridges

Heavy-duty filter housings available in 304 and 316 stainless steel.

Typical filtration applications

- Pre-filtration for RO systems
- Drinking water filtration
- Surface water filtration
- Cooling towers
- Process water
- Ground water
- Municipal water
- Oils and hydraulic fluids



BBH40-SS316-NPT2
(With 2" NPT fittings in 304SS)



BBH40-SS316-FF3
(With 3" flange fittings in 316SS)

Flow-Max[®] industrial filter housings for 40" Big-Bubba cartridges

Model Number	Round	Standard Cartridges	Max. Flow Pleated Cartridges (GPM)	Max. Flow Depth Cartridge (GPM)	Material	Pipe Size	Drain Size	Ship. Weight (lbs.)
BBH40-SS304-NPT2	1	BB 40"	200	175	SS304	2" NPT	3/4"	100
BBH40-SS316-FF3	1	BB 40"	250	200	SS316	3" flange	3/4"	100

Note: Flow rates are for guidelines only. Actual flow rates are based on micron rating, solids content and other factors.

Pleated cartridges for more surface area

Pleated cartridges are recommended for typical water filtration applications to remove sediment, hard solids and when high efficiency filtration is required. We offer a wide range of micron ratings, including one micron absolute for surface water filtration to reduce Giardia Cysts and Cryptosporidium.

40 Pleated Big-Bubba[®] cartridges

Product code	Micron	Media Type	Seal	Number / Carton
BBC-40-P1A	1 Absolute	Polypropylene*	Double o-ring	1
BBC-40-P1	1	Polypropylene	Double o-ring	1
BBC-40-P5	5	Polypropylene	Double o-ring	1
BBC-40-P20	20	Polyester	Double o-ring	1
BBC-40-P50	50	Polyester	Double o-ring	1

* Five ply for greater removal efficiencies.

40 Depth Big-Bubba[®] cartridges

Product code	Micron	Media Type	Seal	Number / Carton
BBC-40-D1	1	Polypropylene	Double o-ring	1
BBC-40-D5	5	Polypropylene	Double o-ring	1
BBC-40-D20	20	Polypropylene	Double o-ring	1
BBC-40-D50	50	Polypropylene	Double o-ring	1

***Notes:** Cartridge o-rings are EPDM. Cartridge end caps have o-rings for superior sealing and cartridges lock in place for greater security.